

Continued from the preceding page.

No.	Item	Specifications	Testing Method																																			
17	Active Flammability	The cheese-cloth should not be on fire.	<p>The capacitor should be individually wrapped in at least one but not more than two complete layers of cheesecloth. The capacitor should be subjected to 20 discharges. The interval between successive discharges should be 5 sec. The UAC should be maintained for 2 min. after the last discharge.</p> <p> $C_{1,2} : 1\mu F \pm 10\%$ $C_3 : 0.033\mu F \pm 5\%$ 10kV $L_{1 \text{ to } 4} : 1.5mH \pm 20\%$ 16A Rod core choke $C_t : 3\mu F \pm 5\%$ 10kV $R : 100\Omega \pm 2\%$ C_x : Capacitor under test $U_{AC} : U_R \pm 5\%$ F : Fuse, Rated 10A U_R : Rated Voltage U_t : Voltage applied to C_t </p>																																			
18	Passive Flammability	The burning time should not exceed 30 sec. The tissue paper should not ignite.	<p>The capacitor under test should be held in the flame in the position which best promotes burning. Each specimen should only be exposed once to the flame. Time of exposure to flame: 30 sec.</p> <p> Length of flame : $12 \pm 1mm$ Gas burner : Length 35mm min. Inside Dia. $0.5 \pm 0.1mm$ Outside Dia. 0.9mm max. Gas : Butane gas Purity 95% min. </p>																																			
19	Temperature and Immersion Cycle	<p>Appearance: No marked defect.</p> <p>Capacitance Change: C: Within $\pm 2.5\%$ L: Within $\pm 5.0\%$ X, B, E: Within $\pm 10\%$ F: Within $\pm 15\%$</p> <table border="1"> <thead> <tr> <th>Char.</th> <th>Specifications</th> </tr> </thead> <tbody> <tr> <td>C, L</td> <td>$Q \geq 400 + 20C_R$ ($C_R < 30pF$) $Q \geq 1000$ ($C_R \geq 30pF$)</td> </tr> <tr> <td>X, B, E</td> <td>$\tan \delta \leq 0.025$</td> </tr> <tr> <td>F</td> <td>$\tan \delta \leq 0.050$</td> </tr> </tbody> </table> <p>I. R.: 3000MΩ.min.</p> <p>Dielectric Strength: Per Item 6.</p>	Char.	Specifications	C, L	$Q \geq 400 + 20C_R$ ($C_R < 30pF$) $Q \geq 1000$ ($C_R \geq 30pF$)	X, B, E	$\tan \delta \leq 0.025$	F	$\tan \delta \leq 0.050$	<p>The capacitor should be subjected to 5 temperature cycles, then consecutively to 2 immersion cycles.</p> <p><Temperature Cycle></p> <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (deg)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25+0/-3</td> <td>30</td> </tr> <tr> <td>2</td> <td>Room temp.</td> <td>3</td> </tr> <tr> <td>3</td> <td>125+3/-0</td> <td>30</td> </tr> <tr> <td>4</td> <td>Room temp.</td> <td>3</td> </tr> </tbody> </table> <p>Cycle time: 5 cycle</p> <p><Immersion Cycle></p> <table border="1"> <thead> <tr> <th>Step</th> <th>Temperature (deg)</th> <th>Time (min)</th> <th>Immersion Water</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>65+5/-0</td> <td>15</td> <td>Clean water</td> </tr> <tr> <td>2</td> <td>0\pm3</td> <td>15</td> <td>Salt water</td> </tr> </tbody> </table> <p>Cycle time: 2 cycle</p> <p>Pre-treatment: Capacitor should be stored at $85 \pm 2^\circ C$ for 1 hr., then placed at room condition*1 for 24 ± 2 hrs.</p> <p>Post-treatment: Capacitor should be stored for 24 ± 2 hrs. at room condition*1.</p>	Step	Temperature (deg)	Time (min)	1	-25+0/-3	30	2	Room temp.	3	3	125+3/-0	30	4	Room temp.	3	Step	Temperature (deg)	Time (min)	Immersion Water	1	65+5/-0	15	Clean water	2	0 \pm 3	15	Salt water
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*1 "room condition" Temperature: 15 to 35°C, Relative humidity: 45 to 75%, Atmospheric pressure: 86 to 106kPa